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PATENT ABSTRACTS OF JAPAN

(11)Publication number : 09-031453

(43)Date of publication of application : 04.02.1997

(51)Int. CI. C09K 9/02

G03C 1/73

// B01J 13/16

(21)Application number : 07-181574

(71)Applicant : FUJI PHOTO FILM CO LTD

(22)Date of filing : 18.07.1995

(72)Inventor : SATOMURA MASATO
SANO MASAJIRO
HAYASHI TAKAYUKI
TANAKA MITSUGI
AONO TOSHIAKI

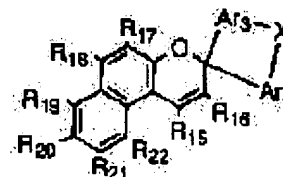
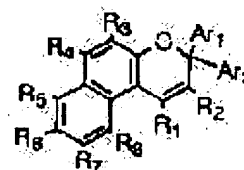
(54) MICROCAPSULE AND ELEMENT USING THE SAME

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a microcapsule, containing a photochromic compound and a high-boiling solvent, having a specific average particle diameter and a high speed of response, excellent in transparency, color development density and repetitive developing and decoloring resistances and useful for dimming, displaying, etc.

SOLUTION: This microcapsule is obtained by including

(A) a photochromic compound such as a compound of formula I [R1 to R8 are each a halogen, a (substituted)alkyl, a (substituted)aryl, a (substituted)alkoxy, etc.; Ar1 and Ar3 are each a (condensed)aromatic ring] or a compound of formula II [R15 to R22 are each R1; Ar3 and Ar4 are each Ar1; X is an atomic group required to form a 5-to an 8-membered (un)saturated ring comprising nonmetallic atoms] and (B) a high-boiling solvent (e.g. a solvent having 160-260° C boiling point), regulating the particle diameter to $\leq 2.0 \mu\text{m}$ and forming the wall from a synthetic polymer.



LEGAL STATUS

[Date of request for examination]